

## IN THE CLAIMS:

Claims 18 and 21 through 36 are to be canceled without prejudice or disclaimer. All of the remaining pending claims 1, 3, 4, 6 through 12, and 14 through 17 are presented below. This listing of claims will replace all prior versions and listings of claims in the application.

1. (allowed) A method of treating inflammatory bowel disease in a mammal, said method comprising:

administering a medicament to a mammal with inflammatory bowel disease comprising an amount of a cytokine- or cytokine antagonist-producing genetically modified non-invasive Gram-positive bacterial strain, wherein the administration of said medicament results in reduction of intestinal mucosal inflammation by at least 50%,

wherein said cytokine or cytokine-antagonist is selected from the group consisting of IL-10, a soluble TNF receptor, a TNF antagonist, an IL-12 derived homodimer, and EBV BCRF1.

2. (cancelled)

3. (allowed) The method according to claim 1 wherein the non-invasive Gram-positive bacterial strain is a *Lactococcus* species.

4. (allowed) The method according to claim 3 wherein the *Lactococcus* species is *Lactococcus lactis*.

5. (cancelled)

6. (allowed) The method according to claim 1 wherein the bowel disease is Crohn's Disease.

7. (allowed) The method according to claim 1 wherein the medicament is administered in combination with at least one additional therapeutic agent.

8. (allowed) The method according to claim 7 wherein the at least one therapeutic agent includes at least one immunosuppressive drug.

9. (allowed) The method according to claim 7 wherein the co-administration of at least one additional therapeutic agent is sequential or simultaneous.

10. (allowed) The method according to claim 1 wherein the medicament is delivered through *in situ* synthesis by recombinant *Lactococcus lactis*.

11. (allowed) The method according to claim 1, wherein the cytokine is IL-10 and the non-invasive Gram-positive bacterial strain is a *Lactococcus* species.

12. (allowed) The method according to claim 11 wherein the *Lactococcus* species is *Lactococcus lactis*.

13. (cancelled)

14. (allowed) The method according to claim 11, wherein the bowel disease is Crohn's Disease.

15. (allowed) The method according to claim 11 wherein the medicament is administered in combination with at least one additional therapeutic agent.

16. (allowed) The method according to claim 15 wherein the at least one therapeutic agent includes at least one immunosuppressive drug.

17. (allowed) The method according to claim 15 wherein the co-administration of at least one additional therapeutic agent is sequential or simultaneous.

18-36. (cancelled)